Test Item Description		
Manufacturer	EF Johnson Technologies	
Manufacturer Contact	John Oblak (507) 382-6327	
Product Name	Viking VP900 UHF (470 MHz to 512 MHz) and 700/800 MHz Portable Subscriber Unit	
Installed Options	Limited and Full Keypad, SEM Installed	
Vocoder Identification	Enhanced Full Rate	

Test Description

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability

Test Information	Test Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)	
Date(s) of Test	January 22, 2016 to February 24, 2016	
Date of Issue	February 26, 2016	

Test Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)
Date(s) of Test	February 11, 2016 to February 24, 2016
Date of Issue	February 26, 2016

Test Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)
Date(s) of Test	October 5, 2012
Date of Issue	October 8, 2012

Test Information	Information	
P25 CAP Laboratory Code	P25CAP081016 (Timco Engineering)	
Date(s) of Test	July 24, 2012	
Date of Issue	July 31, 2012	

Test Information	st Information	
P25 CAP Laboratory Code	P25CAP081017 (Harris)	
Date(s) of Test	December 11, 2012	
Date of Issue	December 17, 2012	

Test Information	est Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)	
Date(s) of Test	January 28, 2013	
Date of Issue	February 4, 2013	

Test Information	Test Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)	
Date(s) of Test	June 5, 2014 to June 6, 2014	
Date of Issue	July 3, 2014	

Informative	mative References	
Date	Title	
Mar 2010	P25-CAB-CAI_TEST_REQ – March 2010	

Other Devices Tested with Viking VP600 Portable Subscriber Unit			
Manufacturer Product Name, Definition, and Unique ID Installed Op		Installed Options	
Tait	TN9400 TaitNet P25	Firmware 3.70, Kernel 3.60	
EF Johnson	IP25 Trunked Infrastructure	Release 3.1-RC1	
Harris	P25 Trunked Infrastructure	Release PR9D	
EF Johnson	Atlas Trunked Infrastructure	TSNI 1.0.5-1	
Motorola Solutions	ASTRO Trunked Infrastructure	Release 25.7.14	

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance		DTR-P25CAP081010-16022601			
	Receiver Tests (7	00/800 MHz)			
Test Case	Test Case Description Requirement Results				
2.1.4	Reference Sensitivity	≤ -116 dBm (Class A	P1		
2.1.5	Faded Reference Sensitivity	≤ -108 dBm (Class A)	P2		
2.1.6	Signal Delay Spread Capability	≥ 50 µs	P3		
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class A)	P4		
2.1.8	Co-Channel Rejection	≤ 9 dB	Р		
2.1.9	Spurious Response Rejection	≥ 70 dB (Class A)	Р		
2.1.10	Intermodulation Rejection	≥ 70 dB (Class A)	Р		
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz	Р		
2.1.17	Late Entry Unsquelch Delay				
	No Talk Group or Encryption	≤ 125 ms	Р		
	Talk Group Only	≤ 370 ms	Р		
	Encryption Only	≤ 370 ms	Р		
	Both Talk Group and Encryption	≤ 460 ms	Р		
2.1.18	Receiver Throughput Delay	≤ 125 ms	Р		

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance		DTR-P25CAP081010-16022601		
	Receiver Tes	ts (UHF)		
Test Case Description Requirement Results				
2.1.4	Reference Sensitivity	≤ -116 dBm (Class A	P5	
2.1.5	Faded Reference Sensitivity	≤ -108 dBm (Class A)	P6	
2.1.6	Signal Delay Spread Capability	≥ 50 µs	P7	
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class A)	P8	
2.1.8	Co-Channel Rejection	≤ 9 dB	Р	
2.1.9	Spurious Response Rejection	≥ 70 dB (Class A)	Р	
2.1.10	Intermodulation Rejection	≥ 70 dB (Class A)	Р	
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz	Р	
2.1.17	Late Entry Unsquelch Delay			
	No Talk Group or Encryption	≤ 125 ms	Р	
	Talk Group Only	≤ 370 ms	Р	
	Encryption Only	≤ 370 ms	Р	
	Both Talk Group and Encryption	≤ 460 ms	Р	
2.1.18	Receiver Throughput Delay	≤ 125 ms	Р	

.1.1.1 – Proje	TEST_REQ – March 2010, Section ct 25 Phase 1 Common Air Interface Subscriber Unit Performance	DTR-P25CAP081010-16022601	
	Transmitter Test	s (800 MHz)	
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	≥ 67 dB	Р
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	≤ 50 ms	Р
	Encoder Attack Time	≤ 100 ms	Р
2.2.14	Transmitter Throughput Delay	≤ 125 ms	Р
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	$2544 \; Hz < f_{dev} \le 3111 \; Hz$	Р
	Low Level Signal Deviation	$848~Hz < f_{dev} \leq 1037~Hz$	Р
2.2.16	Modulation Fidelity	≤ 5% (Class A)	Р
2.2.18	Transient Frequency Behavior		
	Time Interval t ₁ = 20 ms	∆f ≤ 12.5 kHz	Р
	Time Interval t ₂ = 50 ms	∆f ≤ 6.25 kHz	Р
	Time Interval t ₃ = 10 ms	Δf ≤ 12.5 kHz	Р

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance		DTR-P25CAP081010-16022601		
	Transmitter Test	s (700 MHz)		
Test Case	Description	Requirement	Results	
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio			
	Offset From Center Frequency (kHz)			
	9.375	≥ 40 dB	Р	
	15.625, 21.875, 37.5	≥ 60 dB	Р	
	62.5, 87.5, 150, 250, 350	≥ 65 dB	Р	
	>400 kHz to 12 MHz	≥ 75 dB	Р	
	12 MHz to paired RX Band	≥ 75 dB		
	In the paired RX Band	≥ 100 dB	Р	
2.2.12	Transmitter Power and Encoder Attack Time			
	Power Attack Time	≤ 50 ms	Р	
	Encoder Attack Time	≤ 100 ms	Р	
2.2.14	Transmitter Throughput Delay	≤ 125 ms	Р	
2.2.15	Frequency Deviation for C4FM			
	High Level Signal Deviation	$2544 \; Hz < f_{dev} \le 3111 \; Hz$	Р	
	Low Level Signal Deviation	$848 \; Hz < f_{dev} \le 1037 \; Hz$	Р	
2.2.16	Modulation Fidelity	≤ 5% (Class A)	Р	
2.2.18	Transient Frequency Behavior			
	Time Interval t ₁ = 20 ms	Δf ≤ 12.5 kHz	Р	
	Time Interval t ₂ = 50 ms	Δf ≤ 6.25 kHz	Р	
	Time Interval t ₃ = 10 ms	Δf ≤ 12.5 kHz	Р	

.1.1.1 – Proje	TEST_REQ – March 2010, Section ct 25 Phase 1 Common Air Interface Subscriber Unit Performance	DTR-P25CAP081010-16022601	
	Transmitter Te	ests (UHF)	
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	≥ 67 dB	Р
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	≤ 50 ms	Р
	Encoder Attack Time	≤ 100 ms	Р
2.2.14	Transmitter Throughput Delay	≤ 125 ms	Р
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	2544 Hz < f _{dev} ≤ 3111 Hz	Р
	Low Level Signal Deviation	$848~Hz < f_{dev} \leq 1037~Hz$	Р
2.2.16	Modulation Fidelity	≤ 5% (Class A)	Р
2.2.18	Transient Frequency Behavior		
	Time Interval t ₁ = 10 ms	Δf ≤ 12.5 kHz	Р
	Time Interval t ₂ = 25 ms	∆f ≤ 6.25 kHz	Р
	Time Interval t ₃ = 10 ms	∆f ≤ 12.5 kHz	Р

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance		DTR-P25CAP081010-16022601 DTR-P25CAP081010-16022602		
Receiver Tests (700/800 MHz)				
Test Case	Description	Requirement	Results	
2.1.4	Reference Sensitivity	≤ -116 dBm (Class A)	P1	
2.1.5	Faded Reference Sensitivity	≤ -108 dBm (Class A) P2		
2.1.6	Signal Delay Spread Capability	≥ 50 µs P3		
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class A)	P4	
2.1.8	Co-Channel Rejection	≤ 9 dB	Р	
2.1.9	Spurious Response Rejection	≥ 70 dB (Class A)	Р	
2.1.10	Intermodulation Rejection	≥ 70 dB (Class A) P		
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz	Р	

2.1.1.2 - Proje	TEST_REQ – March 2010, Section ct 25 Phase 1 Common Air Interface criber Unit Performance	DTR-P25CAP081010-16022601 DTR-P25CAP081010-16022602			
	Receiver Tes	ts (UHF)			
Test Case	Description	Requirement	Results		
2.1.4	Reference Sensitivity	≤ -116 dBm (Class A)	P5		
2.1.5	Faded Reference Sensitivity	≤ -108 dBm (Class A) P6			
2.1.6	Signal Delay Spread Capability	≥ 50 µs P7			
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class A)	P8		
2.1.8	Co-Channel Rejection	≤ 9 dB	Р		
2.1.9	Spurious Response Rejection	≥ 70 dB (Class A)	Р		
2.1.10	Intermodulation Rejection	≥ 70 dB (Class A) P			
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz P			

2.1.1.2 – Proje	TEST_REQ – March 2010, Section ct 25 Phase 1 Common Air Interface criber Unit Performance	DTR-P25CAP081010-16022601 DTR-P25CAP081010-16022602	
	Transmitter Test	s (800 MHz)	
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	≥ 67 dB	Р
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	≤ 50 ms	Р
	Encoder Attack Time	≤ 100 ms	Р
2.2.14	Transmitter Throughput Delay	≤ 125 ms	Р
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	$2544 \; Hz < f_{dev} \le 3111 \; Hz$	Р
	Low Level Signal Deviation	$848~Hz < f_{dev} \leq 1037~Hz$	Р
2.2.16	Modulation Fidelity	≤ 5% (Class A)	Р
2.2.18	Transient Frequency Behavior		
	Time Interval t ₁ = 20 ms	∆f ≤ 12.5 kHz	Р
	Time Interval $t_2 = 50 \text{ ms}$	Δf ≤ 6.25 kHz	Р
	Time Interval t ₃ = 10 ms	Δf ≤ 12.5 kHz	Р

2.1.1.2 – Proje	TEST_REQ – March 2010, Section ct 25 Phase 1 Common Air Interface criber Unit Performance	DTR-P25CAP081010-16022601 DTR-P25CAP081010-16022602		
	Transmitter Test	s (700 MHz)		
Test Case	Description	Requirement	Results	
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio			
	Offset From Center Frequency (kHz)			
	9.375	≥ 40 dB	Р	
	15.625, 21.875, 37.5	≥ 60 dB	Р	
	62.5, 87.5, 150, 250, 350	≥ 65 dB	Р	
	>400 kHz to 12 MHz	≥ 75 dB	Р	
	12 MHz to Paired RX Band	≥ 75 dB	Р	
	In the Paired RX Band	≥ 100 dB	Р	
2.2.12	Transmitter Power and Encoder Attack Time			
	Power Attack Time	≤ 50 ms	Р	
	Encoder Attack Time	≤ 100 ms	Р	
2.2.14	Transmitter Throughput Delay	≤ 125 ms	Р	
2.2.15	Frequency Deviation for C4FM			
	High Level Signal Deviation	$2544 \; Hz < f_{dev} \le 3111 \; Hz$	Р	
	Low Level Signal Deviation	$848 \; Hz < f_{dev} \le 1037 \; Hz$	Р	
2.2.16	Modulation Fidelity	≤ 5% (Class A)	Р	
2.2.18	Transient Frequency Behavior			
	Time Interval t ₁ = 20 ms	Δf ≤ 12.5 kHz	Р	
	Time Interval t ₂ = 50 ms	Δf ≤ 6.25 kHz	Р	
	Time Interval t ₃ = 10 ms	Δf ≤ 12.5 kHz	Р	

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance		DTR-P25CAP08101 DTR-P25CAP08101		
Transmitter Tests (UHF)				
Test Case	Description	Requirement	Results	
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	≥ 67 dB	Р	
2.2.12	Transmitter Power and Encoder Attack Time			
	Power Attack Time	≤ 50 ms	Р	
	Encoder Attack Time	≤ 100 ms	Р	
2.2.14	Transmitter Throughput Delay	≤ 125 ms	Р	
2.2.15	Frequency Deviation for C4FM			
	High Level Signal Deviation	2544 Hz < f _{dev} ≤ 3111 Hz	Р	
	Low Level Signal Deviation	$848 \; Hz < f_{dev} \le 1037 \; Hz$	Р	
2.2.16	Modulation Fidelity	≤ 5% (Class A)	Р	
2.2.18	Transient Frequency Behavior			
	Time Interval t ₁ = 10 ms	∆f ≤ 12.5 kHz	Р	
	Time Interval t ₂ = 25 ms	∆f ≤ 6.25 kHz	Р	
	Time Interval t ₃ = 10 ms	∆f ≤ 12.5 kHz	Р	

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance		DTR-P25CAP081010-16022601 DTR-P25CAP081010-16022602		
	Trunked Subscriber U	nit Tests (700/800 MHz)		
Test Case	Description	Requirement	Results	
2.3.1	Trunking Control Channel Slot Times (45 ms slot) N7 Encode Attack Time RF Power Attack Time RF Power Turn Off Time	$2.00 \text{ ms} \le t \le 11.65 \text{ ms}$ $0 \text{ ms} \le t \le 11.65 \text{ ms}$ $\le 1.57 \text{ ms}$	P P P	
2.3.2	Trunking Request Time	≤ 167.5 ms	Р	
2.3.3	Trunking Voice Access Time	500 ms (Manufacturer Specified)	Р	
2.3.5	Transmitter Time to Key on a Traffic Channel Short Channel Form	≤ 150.0 ms	Р	

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance		DTR-P25CAP081010-16022601 DTR-P25CAP081010-16022602		
	Trunked Subscriber Unit Tests (UHF)			
Test Case	Description	Requirement	Results	
2.3.1	Trunking Control Channel Slot Times (45 ms slot) N7			
	Encode Attack Time	$2.00 \text{ ms} \le t \le 11.65 \text{ ms}$	Р	
	RF Power Attack Time	$0 \text{ ms} \le t \le 11.65 \text{ ms}$	Р	
	RF Power Turn Off Time	≤ 1.57 ms	Р	
2.3.2	Trunking Request Time	≤ 167.5 ms	Р	
2.3.3	Trunking Voice Access Time	500 ms	Р	
		(Manufacturer Specified)		
2.3.5	Transmitter Time to Key on a Traffic Channel Short Channel Form	≤ 150.0 ms	Р	

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability		DTR-TIMCO081016- VP600TN9400	DTR- P25CAP081010- 12100801	DTR- P25CAP081017- 1121211E01	DTR- P25CAP081010- 13020401	DTP- P25CAP081010- 14070301
EF Johnson Viking VP900 Portable (See note N8)		TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
Test Case	Description					
2.2.1	Full Registration	-				
2.2.1.4.1	Test Case 1 - Valid Registration		T	Т	Т	
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.1.4.2	Test Case 2 – Denied or Refused		T	Т	Т	
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.1.4.3	Test Case 3 - Unverified Registration		ı	T	T	
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.2	Group Voice Call					
2.2.2.4.1	Test Case 1 – Group Call Granted					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.2.4.2	Test Case 2 – Group Call Denied		1			
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.2.4.3	Test Case 3 – Group Call Request		1	T	T	
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability		DTR- P25CAP081016- VP600TN9400	DTR- P25CAP081010- 12100801	DTR- P25CAP081017- 1121211E01	DTR- P25CAP081010- 13020401	DTP- P25CAP081010- 14070301
EF Johnson Viking VP900 Portable		TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
Test Case	Description					
2.2.3	Unit-To-Unit Voice Call					
2.2.3.4.1	Test Case 1 – Unit-To-Unit Call With Target Availability Check					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.2	Test Case 2 – Unit-To-Unit Call Target Availability Check Denied By Target					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.3	Test Case 3 – Unit-To-Unit Call Queued With Target Availability Check – traffic channel assignment after target availability check					
	Home Operation	N/A 1	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.4	Test Case 4 – Unit-To-Unit Call Queued With Target Availability Check – traffic channel assignment before target availability check					
	Home Operation	Р	N/A 2	N/A 2	N/A 2	N/A 2
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.5	Test Case 5 – Unit-To-Unit Call Without Target Availability Check					
	Home Operation	N2	N2	Р	N2	N2
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability		DTR- P25CAP081016- VP600TN9400	DTR- P25CAP081010- 12100801	DTR- P25CAP081017- 1121211E01	DTR- P25CAP081010- 13020401	DTP- P25CAP081010- 14070301
EF Johns	on Viking VP900 Portable	TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
Test Case	Description					
2.2.3	Unit-To-Unit Voice Call					
2.2.3.4.6	Test Case 6 – Unit-To-Unit Call Queued Without Target Availability Check					
	Home Operation	N2	N2	Р	N2	N2
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.7	Test Case 7 – Unit-To-Unit Call Denied				,	
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability		DTR- P25CAP081016- VP600TN9400	DTR- P25CAP081010- 12100801	DTR- P25CAP081017- 1121211E01	DTR- P25CAP081010- 13020401	DTP- P25CAP081010- 14070301
EF Johnson Viking V900 Portable		TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
Test Case	Description					
2.2.4	Broadcast Voice Call					
2.2.4.4.1	Test Case 1 – Broadcast Voice Call		T	T		
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.5	Affiliation					
2.2.5.4.1	Test Case 1 - Radio Permitted To Affiliate With New Group					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation		N4	N5	N4	N6
2.2.5.4.2 Test Case 2 - Radio Denied Affiliation To New Group						
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.6	· · · · · · · · · · · · · · · · · · ·					
2.2.6.4.1	Test Case 1 - Collection Of Talk Groups Receive Call					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.7	Emergency Alarm					
2.2.7.4.1	Test Case 1 - Emergency Alarm					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability		DTR- P25CAP081016- VP600TN9400	DTR- P25CAP081010- 12100801	DTR- P25CAP081017- 1121211E01	DTR- P25CAP081010- 13020401	DTP- P25CAP081010- 14070301
EF Johnson Viking VP900 Portable		TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
Test Case	Description					
2.2.8	Emergency Group Call					
2.2.8.4.1	Test Case 1 - Emergency Call					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.10	Encryption					
2.2.10.4.1	Test Case 1 - Call Privacy For Encrypted Call					
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.11	Intra-Location Registration Area Roaming					
2.2.11.4.1	Test Case 1 – Idle Radio		1		1	ı———
	Home Operation	Р	Р	Р	Р	Р
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

Model Class Definition	Applied to P25-CAB-CAI_Test_Req Mar 2010, 2.1.3.2				
Model Class Name	Product Name, Definition, and Unique ID		Installed Options		
Viking VP900 Series Portable	Viking VI	P900 Portable	Firmware:	8.7.10	

Test Case Result Definitions			
No Test Performed			
Test Does Not Apply to the Test Object	N/A		
Test Object Meets Requirements	P (Pass)		
Test Object Does Not Meet Requirements	F (Fail)		
Test Object is Not Conclusive	I (Inconclusive)		

Comments

- N/A 1: Test case 2.2.3.4.3 is not applicable for TN9400 Taitnet P25 Infrastructure; see results of test case 2.2.3.4.4.
- N/A 2: Test case 2.2.3.4.4 is not applicable for these infrastructures; see results of test 2.2.3.4.3.
- N1: EF Johnson VP600/VP900 subscriber does not support these features.
- N2: Infrastructure does not support this mode of operation.
- N3: TN9400 TaitNet P25 and EF Johnson Viking VP600/VP900 subscriber do not support these features.
- N4: EF Johnson trunking system release 3.1-RC1, EF Johnson Atlas TSNI 1.0.5-1, and EF Johnson Viking VP600/VP900 subscriber do not support these features.
- N5: Harris infrastructure release PR9D and EF Johnson Viking VP600/VP900 subscriber do not support these features.
- N6: Motorola infrastructure release 25 and EF Johnson Viking VP600/VP900 subscriber do not support these features.
- N7: VP900 meets timing requirements in the 45 ms slot timing mode.
- N8: EF Johnson VP400, VP600, and VP900 series portables utilize common trunking software across all frequency bands. Leveraging this frequency band independence of the trunking software, EF Johnson defines a common model class for VP series portables as encompassing all frequency bands for the purposes of trunking interoperability.
- P1: EF Johnson Viking VP900 700/800 MHz subscriber passes Reference Sensitivity (≤ -116 dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.
- P2: EF Johnson Viking VP900 700/800 MHz subscriber passes Faded Reference Sensitivity (≤ -108 dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.
- P3: EF Johnson Viking VP900 700/800 MHz subscriber passes Signal Delay Spread Capability specification for C4FM (Non-Simulcast) (≥ 50 µs) and Simulcast modulations (≥ 80 µs).
- P4: EF Johnson Viking VP900 700/800 MHz subscriber passes Adjacent Channel Rejection (≥ 60 dB) specification for C4FM (Non-Simulcast) and Simulcast modulations.
- P5: EF Johnson Viking VP900 UHF subscriber passes Reference Sensitivity (≤ -116 dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.
- P6: EF Johnson Viking VP900 UHF subscriber passes Faded Reference Sensitivity (≤ -108 dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.
- P7: EF Johnson Viking VP900 UHF subscriber passes Signal Delay Spread Capability specification for C4FM (Non-Simulcast) (\geq 50 μ s) and Simulcast modulations (\geq 80 μ s).
- P8: EF Johnson Viking VP900 UHF subscriber passes Adjacent Channel Rejection (≥ 60 dB) specification for C4FM (Non-Simulcast) and Simulcast modulations.

Project 25 Compliance Assessment Program Summary Test Report

EF Johnson Viking VP900 UHF and 700/800 MHz Portable Subscriber Unit STR-EFJ-16022601

February 26, 2016

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